

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P213520

Luminaire Tested: **14GR-LD5-43-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-A125-UNV-L940-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3727.2 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

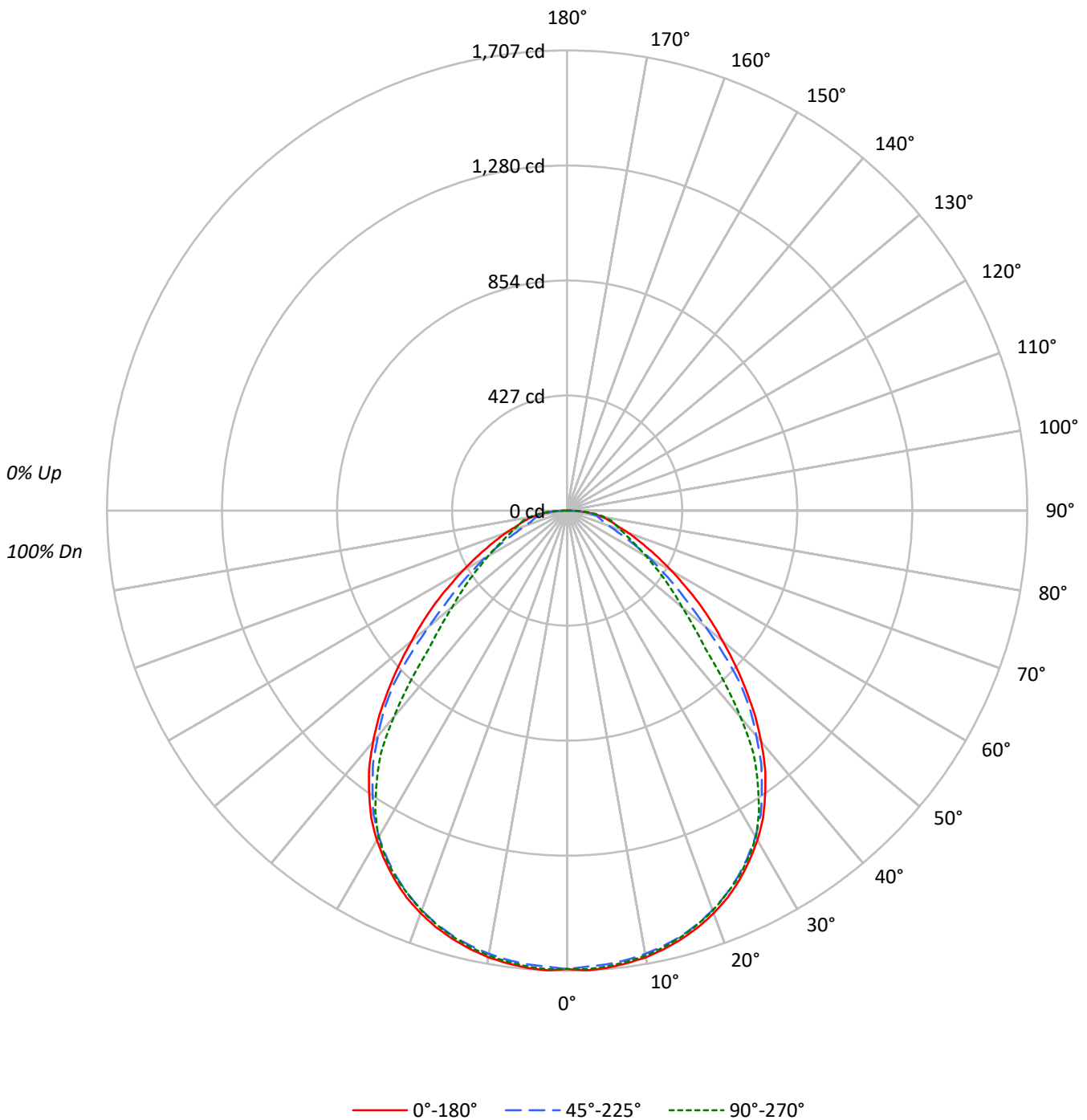
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5731	5731	5731
5°	5759	5715	5741
10°	5757	5713	5737
15°	5737	5701	5710
20°	5699	5656	5662
25°	5623	5572	5587
30°	5494	5434	5447
35°	5268	5179	5069
40°	4926	4804	4408
45°	4458	4331	3457
50°	3944	3504	2915
55°	3490	2880	2571
60°	3012	2383	2279
65°	2620	1896	2096
70°	2368	1627	2096
75°	2274	1699	2341
80°	2532	2164	2736
85°	2672	2308	3275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	4.3
10°-20°	462.4	12.4
20°-30°	691.9	18.6
30°-40°	783.3	21.0
40°-50°	667.2	17.9
50°-60°	451.7	12.1
60°-70°	269.7	7.2
70°-80°	168.5	4.5
80°-90°	71.2	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1315.6	35.3
0°-40°	2098.9	56.3
0°-60°	3217.8	86.3
0°-90°	3727.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1703	1698	1690	1700	1697	162
15°	1645	1639	1634	1645	1637	464
25°	1512	1508	1499	1505	1503	696
35°	1281	1273	1259	1246	1232	798
45°	936	938	909	775	726	722
55°	594	561	490	438	438	531
65°	329	274	238	254	263	331
75°	175	156	130	171	180	189
85°	69	64	60	75	85	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1706.9	1702.6	1693.1	1704.3	1702.6
5°	1702.6	1698.2	1689.6	1700.0	1697.4
7.5°	1693.9	1689.6	1681.8	1692.2	1687.9
10°	1682.7	1677.5	1669.7	1681.0	1676.7
12.5°	1665.4	1660.2	1653.3	1664.5	1658.5
15°	1644.7	1638.6	1634.3	1644.7	1636.8
17.5°	1619.6	1614.4	1608.4	1618.7	1610.1
20°	1589.3	1585.0	1577.2	1583.3	1579.0
22.5°	1554.7	1548.7	1540.9	1547.8	1541.7
25°	1512.4	1508.0	1498.6	1505.4	1502.8
27.5°	1463.9	1461.3	1450.1	1458.7	1454.4
30°	1412.0	1405.2	1396.5	1399.0	1399.9
32.5°	1352.4	1343.8	1336.8	1330.8	1324.7
35°	1280.6	1272.8	1259.0	1246.1	1232.2
37.5°	1206.2	1195.9	1182.1	1153.5	1136.2
40°	1119.8	1114.6	1092.1	1052.3	1002.2
42.5°	1031.6	1026.4	1006.5	917.4	862.9
45°	935.6	938.2	908.8	774.8	725.5
47.5°	843.9	850.9	786.9	661.5	635.5
50°	752.3	760.1	668.4	571.6	556.0
52.5°	671.8	665.8	569.8	501.6	494.6
55°	594.1	561.2	490.3	437.6	437.6
57.5°	514.5	467.8	416.8	383.0	383.0
60°	447.0	389.2	353.6	331.2	338.1
62.5°	384.8	323.4	293.2	288.8	297.5
65°	328.6	274.1	237.8	254.2	262.9
67.5°	282.8	234.4	195.4	230.0	235.2
70°	240.4	204.1	165.1	211.8	212.7
72.5°	201.5	179.8	141.8	192.0	195.4
75°	174.7	156.5	130.5	171.2	179.8
77.5°	153.1	134.0	120.2	147.8	164.3
80°	130.5	109.8	111.5	124.5	141.0
82.5°	100.3	84.7	88.2	102.0	115.0
85°	69.1	64.0	59.7	75.2	84.7
87.5°	37.2	34.6	30.3	42.4	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)